

VERSION DESCRIPTION DOCUMENT FOR THE NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)

Beta Release 6.1

NASA-NEMS-VDD-13

PrISMS Contract

August 29, 2003



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT FOR THE
NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)
RELEASE 6.1**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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1. INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for this release of the NASA Equipment Management System (NEMS). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as NEMS, Release 6.1 and has an effective release date of August 29, 2003.

1.2 PURPOSE OF THE RELEASE

This release implements modifications for the following Change Control Requests (CCRs):

<u>CCR</u>	<u>Title</u>
350	Consolidation file updates (tables, sequence keys)
352	Update Report 420 – Add Sensitive Items < \$2500 line
353	Create Recovery Rate Report
354	Remove IFM information from Adhoc Reports (955)
355	Add Close File statement to NEMS Uploads/Downloads
356	Add COST and CAPITALIZATION-AMT to selection

This release implements modifications necessitated by the following Discrepancy Reports (DRs):

<u>CCR</u>	<u>Title</u>
346	Duplicate Records on regularly scheduled maintenance
347	NEMS Navigation
348	Reports 422 & 423 No Data causing error 1500
363	Incorrect Report Options being displayed / Report Number for Installations

1.3 SCOPE

This VDD provides the functional and technical user of NEMS with information regarding the content, status, and structure of Release 6.1, including the following:

- Changes implemented since Release 6.0.0;
- Validation procedures to ensure the reliability of release changes;
- References to other documentation affected by this release;
- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for NEMS is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Use following Key Words: SESAAS & NEMS)

Telephone: (256) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (256) 544-1836

2. FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT changes related to this release.

2.2 FUNCTIONAL INTERFACES

This section is not applicable for this release.

2.3 CRITICAL ISSUES

This section is not applicable for this release.

2.4 AFFECTED DOCUMENTS

The following documents were changed for this release:

NEMS Web Front End User Guide

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3. TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

This section is not applicable with this release.

3.2 DATA DICTIONARY CHANGES

Refer to Appendix D, Section 4.0, for the data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Section 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NEMS Software Release 6.0 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4. KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A - ABBREVIATIONS AND ACRONYMS

CC	Consolidation Center
CCR	Change Control Request
CSC	Computer Sciences Corporation
DBA	Database Administrator
DR	Discrepancy Report
FAX	Electronic Facsimile Transmission
IRM	Information Resources Management
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NEMS	NASA Equipment Management System
NPDMS	NASA Property Disposal Management System
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document

APPENDIX B - GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a NASA software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a NASA application release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with a NASA application.

APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures for changes in this release:

Section	CCR	Title
1.0	346	Duplicate Records on regularly scheduled maintenance
2.0	347	NEMS Navigation
3.0	348	Reports 422 & 423 No Data causing error 1500
4.0	350	Consolidation file updates (tables, sequence keys)
5.0	352	Update Report 420 – Add Sensitive Items < \$2500 line
6.0	353	Create Recovery Rate Report
7.0	354	Remove IFM information from Adhoc Reports (955)
8.0	355	Add Close File statement to NEMS Uploads/Downloads
9.0	356	Add COST and CAPITALIZATION-AMT to selection
10.0	363	Incorrect Report Options being displayed / Report Number for Installations

Details for the validation procedures follow:

1.0 CCR 346 – Duplicate records on regularly scheduled maintenance

With multiple centers now in table S08 there will be more than 1 maintenance record found. The ACCEPT statement does not limit the counter. The Table maintenance program needs to be modified to include the table key.

Description of Change

Code was changed to remove the check on the counter and the table maintenance program was modified to include the table key.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Try to schedule a daily Regularly Scheduled Maintenance (Option 5 on the Maintenance Selection Menu) more than once.
Expected Results: Message "Error 932 – A DAILY FREQUENCY FOR THIS MAINTENANCE ALREADY EXISTS" will be displayed.
- Try to schedule a weekly Regularly Scheduled Maintenance more than once.
Expected Results: Message "Error 930 – MAINTENANCE FOR REQUESTED FREQ. AND DATE ALREADY EXISTS" will be displayed.
- Try to add a Maintenance Number on the Maintenance Number Table (Option 10 on the Maintenance Selection Menu) more than one time.
Expected Results: Message "Error 003 – REQUESTED RECORD ALREADY EXISTS" will be displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
MNTCHGP1	Maintenance Cycle Update	Program
MNTTBLP1	Maintenance Table Update	Program

2.0 CCR 347 – NEMS Navigation

The menu options added to the ADHOC menu for the Yearly transactions changed the original Table selection in ADHOC from '9' to '11'.

Description of Change

Corrected code to add 2 menu options to the ADHOCs.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

NEMS

- From the NEMS Main Menu enter Function of “=1.11.090”
Expected Results: The User Number Table screen will be displayed.
- From the NEMS Main Menu enter Function of “=1.9”
Expected Results: The Yearly Transaction File Adhoc by ECN screen will be displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
ADH000P1	ADHOC Menu	Program

3.0 CCR 348 – Reports 422 & 432 No Data causing error 1500

When the selection criteria for reports 422 and 432 does not produce any data for the report then the report received error 1500.

Description of Change

Code was changed so that when no records are selected a dummy record is written.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Schedule and run report 422 (1324 - CAPITAL EQUIPMENT - NEMS (DETAIL) for a date range that will contain no data
Expected Results: The report will run and the message “NO YEARLY TRANSACTION RECORDS FOUND ON NEMS DATA” will be displayed in the report job output.
- Schedule and run report 432 (1324 - CONTROLLED EQUIPMENT REPORT) for a date range that will contain no data
Expected Results: The report will run and the message “NO YEARLY TRANSACTION RECORDS FOUND ON NEMS DATA” will be displayed in the report job output.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
RPT422P2	1324 - Controlled Equipment Report Detail - NEMS	Program
RPT432P2	1324 - Controlled Equipment Report	Program

4.0 CCR 350 – Consolidation file updates (tables, sequence keys)

With the consolidation of the NEMS-HISTORY file there are duplicate sequence numbers as centers are implemented. Also, the manufacturer code table report should only show discrepancies for manufacturer codes that are being used.

Description of Change

A utility program was written to check the NEMS-HISTORY file for duplicate history keys. If duplicates are found the sequence keys will be “re-sequenced” based on the DELETE-DATE. The utility program that produces a discrepancy report of Manufacturer’s Codes was changed to only report discrepancies for Manufacturer’s Codes that are being used.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Run NEUMFGP3. **NOTE:** This is a utility to be used by the SESAAS Developers only.
Expected Results: Discrepancy report will be produced that will only show Manufacturer Codes that are currently being used.
- Run HSTSEQP1. **NOTE:** This is a utility to be used by the SESAAS Developers only.
Expected Results: Sequence number on the History Keys will be Re-Sequenced so that there will not be duplicates on the NEMS-HISTORY file.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
HSTSEQN1	Utility to Re-Sequence History Keys	Program
HSTSEQP1	Utility to Re-Sequence History Keys	Subprogram
NEUMFGP3	UPDATE TABLE 040 (MFG-CODE) UTILITY	Program
TBLS05P1	Report Number Table Update	Program
UPTBL200	Update Table 200	Program

5.0 CCR 352 – Update Report 420 – Add Sensitive Items < \$2500 line

Sensitive Items < \$2500 is needed to match the input for LIMS

Description of Change

A line for Sensitive Items < \$2500 has been added to the 420 report

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Schedule and run the 420 report
Expected Results: The report will run successfully and will contain a line for Sensitive Items < \$2500.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
RPT420P1	1324 - Controlled Equipment Report - NEMS	Program

6.0 CCR 353 – Create Recovery Rate Report

A report is needed to display Recovery Rate information. This report will be based on fiscal year. Items prior to 1997 will be included together. Other years from 1997 forward should only be displayed if they have data.

Description of Change

Report 435 - Recovery Rate was created.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Schedule and run the 435 report using several different dates.
Expected Results: The report will run successfully and will display the Year lost, Number of Items, and Cost by year.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
PRM435P1	Parameters for Recovery Rate Report	Program
RPT435P1	Recovery Rate Report	Program

7.0 CCR 354 – Remove IFM information from Adhoc Reports (955)

IFM does not interface with NEMS. The requirement for the IFM files has been removed.

Description of Change

References to the IFM files were removed from the Adhoc Reports.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Schedule and run an Adhoc Report (955).
Expected Results: The report will run successfully.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
ADH910P4	Daily Transaction Dynamic Adhoc	Program
ADH930P4	Equipment File Adhoc by Field	Program
ADH950P4	History File Adhoc by Field	Program
ADH970P4	Monthly Transaction Adhoc by Field	Program
ADH971P4	Yearly Transaction Adhoc by Field	Program
RPT955P2	Dynamic Adhoc Batch Report	Program
RPT955P3	Dynamic Adhoc Batch Report	Program
RPT955P4	Dynamic Adhoc Batch Report	Program
RPT955P5	Dynamic Adhoc Batch Report	Program
RPT955P6	Dynamic Adhoc Batch Report	Program
RPT955P7	Dynamic Adhoc Batch Report	Program
RPT955P8	Dynamic Adhoc Batch Report	Program
RPT955P9	Dynamic Adhoc Batch Report	Program

8.0 CCR 355 – Add Close File statement to NEMS Uploads/Downloads

Based on the Parameters that are being used in the CLIST, the WORKFILES are not being closed until you go to the NEXT prompt or unless you sign off. If the Parameters are changed it might break something else.

Description of Change

Code was changed to add the CLOSE FILE statement to modules that perform Uploads or Downloads. Code was also changed to remove the limit of 200 records.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Run the Inventory upload process
Expected Results: Inventory upload process will execute correctly
- Perform an adhoc and have the results downloaded to the PC.
Expected Results: The download process will download the selected records and not be limited to 200.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS</u>		
ADH990P1	Dynamic Adhoc	Program
ADH991P1	Dynamic Adhoc	Program
ADH991P2	Dynamic Adhoc	Program
NEMSCENT	NEMS Central Driver	Program
<u>Inventory</u>		
INVPBCP8	Inventory Upload	Program
INVPBCP9	Inventory Upload	Program

9.0 CCR 356 – Add COST and CAPITALIZATION-AMT to Selection

Option 24 - CONTRACTOR TAG NO and Option 25 - CONTRACTOR ACCT are no longer being used in NEMS. Replace these 2 options with COST and CAPITALIZATION-AMT.

Description of Change

Code was changed to change Option 24 to COST and Option 25 to CAPITALIZATION-AMT removing CONTRACTOR TAG NO and CONTRACTOR ACCT

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Perform the Equipment File by Field Adhoc
Expected Results: COST and CAPITALIZATION will be displayed as options 24 and 25.
- Select COST and an amount to display information from the Equipment file
Expected Results: Data meeting the criteria selected for the COST will be selected.
- Select CAPITALIZATION AMT and an amount to display information from the Equipment file
Expected Results: Data meeting the criteria selected for the CAPITALIZATION AMT will be selected.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
ADH930P1	Dynamic Adhoc	Program
NEMSCENT	NEMS Central Driver	Program

10.0 CCR 363 – Incorrect Report Options being displayed / Report Number for Installations

When more than 1 center has a site unique report with the same report number and one center has no report options and another center has report options then one of the centers will get incorrect report options. When site unique reports are added, changed, or deleted it is displaying incorrect information.

Description of Change

Code was changed to limit the site unique reports by installation (NEMS, INV, & PCM). Change code so that the correct information is displayed for the installation.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Add a NEMS site unique report (S05) that has the same report number as another center's site unique report.
Expected Results: Report will be added successfully to table S05
- Add a NEMS Inventory by Account (S09) site unique report that has the same report number as another center's site unique report.
Expected Results: Report will be added successfully to table S09
- Add a NEMS Inventory by Location (S11) site unique report that has the same report number as another center's site unique report.
Expected Results: Report will be added successfully to table S11
- Schedule a NEMS site unique report that has the same report number as another center's site unique report.
Expected Results: If report options are available for your center's site unique report then they should be displayed. If report options are not available for your center's site unique report then they should not be displayed.
- Schedule a NEMS Inventory by Account site unique report that has the same report number as another center's site unique report.
Expected Results: If report options are available for your center's site unique report then they should be displayed. If report options are not available for your center's site unique report then they should not be displayed.
- Schedule a NEMS Inventory by Location site unique report that has the same report number as another center's site unique report.
Expected Results: If report options are available for your center's site unique report then they should be displayed. If report options are not available for your center's site unique report then they should not be displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS</u>		
ADHS13P1	Report Number Table Adhoc	Program
RPTSELP1	On-Request Report Selection Menu Program	Program
TBLS05P1	Report Number Table Update	Program

TBLS09P1	Inventory Report Number Table Update	Program
TBLS13P1	Report Number Table Update	Program
<u>Inventory</u>		
INVRSLP1	On-Request Report Selection Menu Program	Program

APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS SOFTWARE RELEASE 6.1

Introduction

Release information:

System Name: NEMS
Release Number: 6.1
Release Date: August 29, 2003
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NEMS)

Telephone: (256) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (256) 544-1836

The following datasets are located on the transient storage DASD volumes under the following data sets names:

MSMOV.NEMS.BETA.R610.R0803.SRC

Where "xx" is replaced by the appropriate NASA Center designation.

AR - ARC
DF - DFRC
GS - GSFC
HQ - HQ
J5 - JSC
KS - KSC
LA - LaRC
LE - GRC (Glenn)
MS - MSFC
SS - SSC

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all NEMS files as a precautionary measure prior to installation.

2.0 Copy Source

2.1 Copy Source Code

- A. Source code is installed in three separate libraries. Source code for programs modified in this release version were unloaded in the NATUNLD format; these programs all have specific destination libraries as shown below. All the NEMS programs have a destination of NEMS; NEMSINV programs have a destination of NEMSINV and NEMSPCM programs have a destination of NEMSPCM.

1. Load the NEMS source library from the dataset
MSMOV.NEMS.BETA.R610.R0803.SRC

The source programs were unloaded using the Natural utility NATUNLD. The NEMS programs:

1. ADHS13P1	Report Number Table Adhoc List	Program
2. ADH000P1	ADHOC Menu	Program
3. ADH910P4	Daily Transaction Dynamic Adhoc	Program
4. ADH930P1	Dynamic Adhoc	Program
5. ADH930P4	Equipment File Adhoc by Field	Program
6. ADH950P4	History File Adhoc by Field	Program
7. ADH970P4	Monthly Transaction Adhoc by Field	Program
8. ADH971P4	Yearly Transaction Adhoc by Field	Program
9. ADH990P1	Dynamic Adhoc	Program
10. ADH991P1	Dynamic Adhoc	Program

11.ADH991P2	Dynamic Adhoc	Program
12.HSTSEQN1	Utility to Re-Sequence History Keys	Program
13.HSTSEQP1	Utility to Re-Sequence History Keys	Subprogram
14.MNTCHGP1	Maintenance Cycle Update	Program
15.MNTTBLP1	Maintenance Table Update	Program
16.NEMS	Banner Screen	Program
17.NEMSCENT	NEMS Central Driver	Program
18.NEUMFGP3	Update Table 040 (MFG-CODE) Utility	Program
19.PRM435P1	Parameters for Recovery Rate Report	Program
20.RPTSELP1	On-Request Report Selection Menu Program	Program
21.RPT420P1	1324 - Controlled Equipment Report - NEMS	Program
22.RPT422P2	1324 - Controlled Equipment Report Detail - NEMS	Program
23.RPT432P2	1324 - Controlled Equipment Report	Program
24.RPT435P1	Recovery Rate Report	Program
25.RPT955P2	Dynamic Adhoc Batch Report	Program
26.RPT955P3	Dynamic Adhoc Batch Report	Program
27.RPT955P4	Dynamic Adhoc Batch Report	Program
28.RPT955P5	Dynamic Adhoc Batch Report	Program
29.RPT955P6	Dynamic Adhoc Batch Report	Program
30.RPT955P7	Dynamic Adhoc Batch Report	Program
31.RPT955P8	Dynamic Adhoc Batch Report	Program
32.RPT955P9	Dynamic Adhoc Batch Report	Program
33.TBLS05P1	Report Number Table Update	Program
34.TBLS09P1	Inventory Report Number Table Update	Program
35.TBLS13P1	Report Number Table Update	Program
36.UPTBL200	Update Table 200	Program

will be loaded to the application library NEMS, replacing any existing programs of the same name.

2. Load the NEMSINV source library from the dataset:
MSMOV.NEMS.BETA.R610.R0803.SRC

The source programs were unloaded using the Natural utility NATUNLD. The NEMSINV programs:

1. INVPBCP8	Inventory Upload	Program
2. INVPBCP9	Inventory Upload	Program
3. INVRSLP1	On-Request Report Selection Menu Program	Program
4. NEMSINV	Inventory Banner Screen	Program

will be loaded to the application library NEMSINV, replacing any existing programs of the same name.

3. Load NEMSPCM source library from the dataset:
MSMOV.NEMS.BETA.R610.R0803.SRC

The source programs were unloaded using the Natural utility NATUNLD. The NEMSPCM Programs:

None

will be loaded to the application library NEMSPCM, replacing any existing programs of the same name.

The source module counts included in this release are listed below:

Natural Source Modules by Type	Count
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	0
MAPS	0
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	1
PROGRAMS	39
COPYCODE	0
TEXT	0
PROCESSOR	0
MISCELLANEOUS OBJECTS	0
Total:	40

2.2 List of Source Code Modifications

The following are the modules added, modified, and deleted.

Added Modules:

NEMS

1. NEUMFGP3 Program
2. PRM435P1 Program
3. RPT435P1 Program

INVENTORY

None

PCM

None

Modified Modules:

NEMS

- | | | |
|-----|----------|------------|
| 1. | ADHS13P1 | Program |
| 2. | ADH000P1 | Program |
| 3. | ADH910P4 | Program |
| 4. | ADH930P1 | Program |
| 5. | ADH930P4 | Program |
| 6. | ADH950P4 | Program |
| 7. | ADH970P4 | Program |
| 8. | ADH971P4 | Program |
| 9. | ADH990P1 | Program |
| 10. | ADH991P1 | Program |
| 11. | ADH991P2 | Program |
| 12. | HSTSEQN1 | Program |
| 13. | HSTSEQP1 | Subprogram |
| 14. | MNTCHGP1 | Program |
| 15. | MNTTBLP1 | Program |
| 16. | NEMS | Program |
| 17. | NEMSCENT | Program |
| 18. | RPTSELP1 | Program |
| 19. | RPT420P1 | Program |
| 20. | RPT422P2 | Program |
| 21. | RPT432P2 | Program |
| 22. | RPT955P2 | Program |
| 23. | RPT955P3 | Program |
| 24. | RPT955P4 | Program |
| 25. | RPT955P5 | Program |
| 26. | RPT955P6 | Program |
| 27. | RPT955P7 | Program |
| 28. | RPT955P8 | Program |
| 29. | RPT955P9 | Program |
| 30. | TBLS05P1 | Program |
| 31. | TBLS09P1 | Program |
| 32. | TBLS13P1 | Program |
| 33. | UPTBL200 | Program |

Inventory

34.	INVPBCP8	Program
35.	INVPBCP9	Program
36.	INVRSLP1	Program
37.	NEMSINV	Program

PCM

None

Deleted Modules:**NEMS**

None

Inventory

None

PCM

None

3.0 Pre-Predict Data Conversion

Not Applicable for this release.

4.0 Install Predict

Not Applicable for this release.

5.0 Catalog Source Code

To be performed by the SESAAS DBA.

Run a batch job to catalog (CATALL) all modules in the NEMS library using the NASA Batch Standard Parameters replacing the existing PS and LS with the following values: PS=23 and LS=80. It is not necessary to catalog the Global Data Area (GDA).

You should receive 35 NATURAL 0303 errors for modules that begin with RPT* that concern page overflow and 27 programs will produce NATURAL 0002 errors. There should be a total of 62 NATURAL errors.

A list of errors found above and dispositions of these results follows:

- To compile the NATURAL 0303 errors correctly, run another CATALL for the RPT* modules in the NEMS library using the NASA Batch Standard Parameters. You should receive 12 NATURAL 0002 errors. Ignore the 0002 errors because these objects are dynamic. You should also CATALL the JRNRPTP1 module using the NASA Batch Standard Parameters.
- The 27 NATURAL 0002 errors from the first CATALL are to be IGNORED because these objects are dynamic.

Run a batch job to catalog (CATALL) all modules in the NEMSINV library using the NASA Batch Standard Parameters. It is not necessary to catalog the Global Data Area (GDA). There should be no errors received.

Run an online catalog (CATALL) on module TRNI34P1 and TRNILOP3 to prevent problems with access to the second screen.

Run a batch job to catalog (CATALL) all modules in the NEMSPCM library using the NASA Batch Standard Parameters. It is not necessary to catalog the Global Data Area (GDA). There should be one NATURAL 0043 error received. See Section 9.0 Installation Checklist for instructions on how to correct these errors.

After all objects are compiled, the NEMS application will run under the NASA On-line Standard Parameters.

6.0 Post-Predict Data Conversion

Not Applicable for this release.

7.0 Perform Release-Specific Procedures

Not Applicable for this release.

8.0 Local JCL Mods

Not Applicable for this release.

9.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.0 Copy Source
 - 2.1 Copy Source Code
 - 2.2 List of Source Code Modifications
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
 - 4.1 Data Dictionary Change
 - 4.1.1 Inventory of Objects
 - 4.1.2 Storage Considerations
 - 4.1.3 Physical File Changes
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods